CENTRAL INTELLIGENCE AGENCY REPORT

INFORMATION REPORT

50X1-HUM

COUNTRY Germany (Russian Zone)

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SUBJECT Activities of the Bureau for Electrical Machine Design and KTB 20

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EVALUATE 50X1-HUM

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1. The Bureau for Electrical Machine Design (BEM), situated at Berlin-Oberschöneweide, Wilhelminenhofstrasse 83-85, in the former AEG works, acts as a central buying and supply agency for about 25 technical bureaus connected with electrical engineering, and deals with their general administration. Apart from this purely commercial and administrative role, BEM also handles the technological liaison, i.e., maintenance of common standards of design and manufacture.

2. The various technical bureaus may control more than one factory. KTB 20, for example, controls both Oehmig Hartha and Siemens-Elektrowärme at Sörnewitz near Meissen, which make electric heaters and other appliances.

3. Soviet Major Britzyn is in charge of BEM. He controls the various technical bureaus through Soviet directors whom he appoints. In the case of KTB 20, this is one Frischmann.

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4. Kusnetzov is Chief Designer at both BEM and KTB 20. Similarly, Miller is Chief Technologist at both BEM and KTB 20. This insures the technical coordination of the former AEG methods at BEM and the Siemens and Loren, practices of KTB 20.

5. The permissible variation of voltage in the IS generators on the high tension side has now been reduced from 5% to 2½%. The tuning of the voltage is effected indirectly by regulating the low tension side only to the prescribed limits, and then by adjusting the carbon brushes on the high tension side until the desired output is obtained. This brush position is now critical within one degree. Since the Oehmig Hartha firm does not own the necessary equipment for the adjustment of these generators, they will have to be handed to KTB 20, where an oscillograph is available. 50X1-HUM

6. A packing case containing 40 to 50 rudder motors (type 1.09) was returned to KTB 20 for investigation. All the motors were unserviceable and showed signs of having been over-strained, as the cardboard cylinders which carry the rotating armature had been distorted by centrifugal force. 50X1-HUM 50X1-HUM

(Comment: the failure was caused by faulty installation.)

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7. The design for tools to manufacture a series of industrial motors is progressing. Target dates have been set for the delivery of the necessary drawings as follows: 15 September 1948 for the 2 kw motor, November for the 0.7 to 1 kw motor, and December for the 5-7 kw motor. All the tools are being designed at KTB 20 and one set of each is to be made there. All the drawings carry Russian headings but the specifications and instructions on them are in German and Russian.